AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1.   (Currently Amended) A distributed system having a client and a server, comprising:

a state manager interposed between the client and a service component, the state manager
        having a capability to generate a list of a plurality of data attributes required to
        represent a state of an application in the distributed system, request the service
        component to obtain the plurality of data attributes on the list, and cache the plurality
        of data attributes such that the plurality of data attributes are locally accessible to the
        client; and

the service component interposed between the state manager and the server, the service
        component having a capability to fetch the plurality of data attributes from the server
        based on the list,

wherein the cache comprises a plurality of proxies, and

wherein each of the plurality of attributes is stored in one the plurality of proxies.

2.   (Previously Presented) The distributed system of claim 1, further comprising a transport
mechanism interposed between the state manager and the service component, the transport
mechanism having a capability to package the plurality of data attributes for transport
between the state manager and the service component.

3.   (Previously Presented) The distributed system of claim 1, wherein the state manager
comprises means for learning the plurality of data attributes required to represent the state of
the distributed system.

4.   (Cancelled)

5.   (Cancelled)

6.   (Currently Amended) The distributed system of claim [[5]] 1, wherein the state manager
further comprises means for generating a list of the plurality data attributes that have
changed in the plurality of prox[[y]]ies.

7.   (Currently Amended) The distributed system of claim 6, wherein the service component comprises means for updating data using the list of the plurality of data attributes changed in the plurality of prox[[y]]ies.

8.   (Original) The distributed system of claim 1, wherein the state manager further comprises means for generating an executable instruction comprising a set of method calls to be executed on the server.

9.   (Original) The distributed system of claim 8, wherein the service component comprises means for interpreting the executable instruction.

10. (Cancelled)

11. (Currently Amended) A distributed performance optimizer for a distributed application, comprising:
     a client portion operatively connected to a client configured to generate a list of a plurality of
          data attributes required to represent a state of the distributed application, request the
          server portion to obtain the plurality of data attributes on the list, and cache the
          plurality of attributes; and
     the server portion operatively connected to a server configured to fetch the plurality of data
          attributes from the server based on the list,
     wherein the client portion is interposed between the client and the server portion, and
     wherein the server portion is interposed between the client portion and the server,
     wherein the cache comprises a plurality of proxies, and
     wherein each of the plurality of attributes is stored in one the plurality of proxies.

12. (Previously Presented) The distributed performance optimizer of claim 11, further comprising a transport means that packages the plurality of data attributes for transport between the server portion and the client portion.

13. (Cancelled)

14.   (Currently Amended) The distributed performance optimizer of claim [[13]] 11, wherein the client portion further comprises means for tracking changes made to the plurality of data attributes cached in the plurality of proxies.

15.   (Currently Amended) The distributed performance optimizer of claim 14, wherein the service component comprises means for synchronizing the plurality of data attributes cached in the plurality of proxies.

16.   (Currently Amended) The distributed performance optimizer of claim 12, wherein the client portion further comprises means for collecting information about the plurality of data attributes accessed in the plurality of proxies.

17.   (Original) The distributed performance optimizer of claim 12, wherein the client portion further comprises means for generating an executable instruction comprising a set of method calls to be executed on the server.

18.   (Original) The distributed performance optimizer of claim 17, wherein the service portion comprises means for invoking the executable instruction.

19. - 37. (Canceled)

38.   (Previously Presented) The distributed system of claim 3, wherein the state manager comprises means for prefetching the plurality of data attributed based on learning which of data attributes are used to represent the state.